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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,766	02/06/2004	Jack Y. Peng	27140.013	8821
21907 ROZSA LAW (7590 03/23/200 ⁻ GROUP LC	,	EXAMINER	
	NK BOULEVARD	MAI, NGOCLAN THI		
SUITE 220 TARZANA, CA 91356-3346			ART UNIT	PAPER NUMBER
,			1742	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	03/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

			حسرا"
	Application No.	Applicant(s)	
	10/774,766	PENG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ngoclan T. Mai	1742	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with th	e correspondence address	5
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING E - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI .136(a). In no event, however, may a reply be I will apply and will expire SIX (6) MONTHS for the, cause the application to become ABANDO	ION. e timely filed rom the mailing date of this communi DNED (35 U.S.C. § 133).	
Status	•		
1) Responsive to communication(s) filed on 19 L	December 2006.		
2a) This action is FINAL . 2b) ⊠ Thi	s action is non-final.		
3) Since this application is in condition for allows	ance except for formal matters,	prosecution as to the meri	its is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-13 is/are pending in the application	۱.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5)⊠ Claim(s) <u>1-4,7 and 10-13</u> is/are allowed.			
6)⊠ Claim(s) <u>5, 6, 8-9</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examina	er.		
10) The drawing(s) filed on is/are: a) acc		e Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	•	• • •	21(d).
11) The oath or declaration is objected to by the E	* · · ·	•	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119	(a)-(d) or (f).	
1. Certified copies of the priority documen	ts have been received.		
2. Certified copies of the priority documen		ation No	
3. Copies of the certified copies of the price	·		9
application from the International Burea	nu (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	t of the certified copies not rece	ived.	
Attachment(s)	A) [] -4i	on, (DTO 442)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail		
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informa		
Paper No(s)/Mail Date	6) Other:		

DETAILED ACTION

1. Amendment filed 12/19/06 has been entered. Claims 1-13 are under examination, wherein claims 1-9 are amended and claims 10-13 are added.

2. In the remark, line 7-12, page 9, applicant requested that the examiner to accept the term V_{Al} as total volume percentage of the aluminum phase for the reason that one skill in the art will clearly understand the physical meaning of the term V_{Al} in the equation. Examiner agrees with the applicant since V_M is defined as the total volume of the modulus phase, V_{Al} therefore cannot be anything else except that. Examiner however requests that applicant amend the specification to include this limitation should the claimed found allowable.

Claim Rejections - 35 USC § 112

3. Claims 5, 6, 8, and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 recites the limitation "nano aluminum oxide particles" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim.

Claim 8 recites the limitation "nano-scale aluminum oxide particles" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claims 5 and 9 are indefinite because it is not clear whether applicant intends to claim the modulus ceramic particles per se or the nanocomposite in accordance of claim 4, wherein said modulus ceramic particles comprises the limitations as set forth in the claims.

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Similarly, claim 8 is indefinite because it is not clear whether nano-scale aluminum oxide particles per se is being claimed or the composite that containing the nano-scale aluminum oxide particles. Applicant is reminded that if modulus ceramic particles or nano-scale aluminum oxide particles per se are intended. They are not patentable over the applied prior art.

Status of previous rejections

- 4. Applicant's arguments, see page 13-16, filed 12/19/06, with respect to amended claims 1-5, 7-9 being anticipated by Meeks, III et al. have been fully considered and are persuasive. The rejection has been withdrawn. Applicant's arguments, see page 17-20 with respect to amended claims 1-5 and 7-8 as being anticipated by Sawtell have also been fully considered and are persuasive. This rejection has been withdrawn as well.
- The following is an examiner's statement of reasons for allowance: Claims 1-4, 7, 10-13 are allowed in view of the combination of the amendment to claim 1 reciting the aluminum metal or an aluminum metal alloy particle with nano-scale surface aluminum oxide comprised of an aluminum metal or aluminum alloy inside of said particles and an aluminum oxide layer on the outside of the said particles and the limitation of volume percent of nano phase aluminum oxide needed in the particles defined by the equation as recited in the claims. Further, none of the references alone or in combination teach or suggest the nano phase aluminum oxide being controlled based on the amount of the aluminum or aluminum alloy, the modulus and the total nano phase aluminum oxide in the composite.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoclan T. Mai whose telephone number is (571) 272-1246. The examiner can normally be reached on 9:30-6:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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